

# Freeform Search

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Term:

122 and compar\$

Display:

10

Documents in Display Format:

-

Starting with Number

1

Generate:  Hit List  Hit Count  Side by Side  Image

## Search History

DATE: Saturday, October 14, 2006 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
<b>side by side</b>			
	DB=PGPB,USPT; PLUR=YES; OP=OR		
<u>L24</u>	l22 and compar\$	4	<u>L24</u>
<u>L23</u>	l22 and compare	3	<u>L23</u>
	DB=USPT,PGPB; PLUR=YES; OP=OR		
<u>L22</u>	(4648064 '4897834 '5721722 '5812432)![pn]	4	<u>L22</u>
	DB=USPT; PLUR=YES; OP=OR		
<u>L21</u>	L20 and L19	20	<u>L21</u>
<u>L20</u>	(validat\$ and (sorage\$ or device\$) and address\$).clm.	463	<u>L20</u>
<u>L19</u>	(validat\$ and (sorage\$ or device\$) and address\$).ab.	39	<u>L19</u>
<u>L18</u>	(validat\$ and (sorage\$ or device\$) and address\$).ti.	2	<u>L18</u>
<u>L17</u>	validat\$ and (sorage\$ or device\$) and address\$	20261	<u>L17</u>
<u>L16</u>	(5550971 or 4897648 or 5206949 or 5768581 or 5995979).pn.	5	<u>L16</u>
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L15</u>	L14 and L13	13	<u>L15</u>
<u>L14</u>	(storage near5 device\$ and path\$2).clm.	6595	<u>L14</u>
<u>L13</u>	L12 and L11	232	<u>L13</u>
<u>L12</u>	(storage near5 device\$ and path\$2).ab.	4707	<u>L12</u>
<u>L11</u>	(storage near5 device\$ and path\$2).ti.	378	<u>L11</u>
<u>L10</u>	(storage near5 device\$ and path\$2)	125305	<u>L10</u>

<u>L9</u>	L8 and compar\$	1	<u>L9</u>
<u>L8</u>	L7 and L6	1	<u>L8</u>
<u>L7</u>	((compar\$ or map\$) and (device near5 (id or identif\$)) and (information or data)).clm.	8413	<u>L7</u>
<u>L6</u>	L5 and L3	150	<u>L6</u>
<u>L5</u>	((compar\$ or map\$) and (device near5 (id or identif\$)) and (information or data)).ab.	3726	<u>L5</u>
<u>L4</u>	((compar\$) and (device near5 (id or identif\$)) and (information or data)).ti.	219	<u>L4</u>
<u>L3</u>	((compar\$ or map\$) and (device near5 (id or identif\$)) and (information or data)).ti.	258	<u>L3</u>
<u>L2</u>	((compar\$ or map\$) and (device near5 (id or identif\$)) and (information or data))	78641	<u>L2</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L1</u>	6393535.pn.	1	<u>L1</u>

END OF SEARCH HISTORY

# Refine Search

## Search Results -

Terms	Documents
L20 and L19	20

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:






## Search History

DATE: Saturday, October 14, 2006




<u>Set Name</u>	<u>Query</u>
-----------------	--------------

side by side

DB=USPT; PLUR=YES; OP=OR

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
<u>L21</u>	L20 and L19	20	<u>L21</u>
<u>L20</u>	(validat\$ and (sorage\$ or device\$) and address\$).clm.	463	<u>L20</u>
<u>L19</u>	(validat\$ and (sorage\$ or device\$) and address\$).ab.	39	<u>L19</u>
<u>L18</u>	(validat\$ and (sorage\$ or device\$) and address\$).ti.	2	<u>L18</u>
<u>L17</u>	validat\$ and (sorage\$ or device\$) and address\$	20261	<u>L17</u>
<u>L16</u>	(5550971 or 4897648 or 5206949 or 5768581 or 5995979).pn.	5	<u>L16</u>

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L15</u>	L14 and L13	13	<u>L15</u>
<u>L14</u>	(storage near5 device\$ and path\$2).clm.	6595	<u>L14</u>
<u>L13</u>	L12 and L11	232	<u>L13</u>
<u>L12</u>	(storage near5 device\$ and path\$2).ab.	4707	<u>L12</u>
<u>L11</u>	(storage near5 device\$ and path\$2).ti.	378	<u>L11</u>
<u>L10</u>	(storage near5 device\$ and path\$2)	125305	<u>L10</u>
<u>L9</u>	L8 and compar\$	1	<u>L9</u>
<u>L8</u>	L7 and l6	1	<u>L8</u>
<u>L7</u>	((compar\$ or map\$) and (device near5 (id or identif\$)) and (information or	8413	<u>L7</u>

data)).clm.  
L6 L5 and l3 150 L6  
L5 ((compar\$ or map\$) and (device near5 (id or identif\$)) and (information or data)).ab. 3726 L5  
L4 ((compar\$) and (device near5 (id or identif\$)) and (information or data)).ti. 219 L4  
L3 ((compar\$ or map\$) and (device near5 (id or identif\$)) and (information or data)).ti. 258 L3  
L2 ((compar\$ or map\$) and (device near5 (id or identif\$)) and (information or data)) 78641 L2  
*DB=USPT; PLUR=YES; OP=OR*  
L1 6393535.pn. 1 L1

END OF SEARCH HISTORY

[First Hit](#) [Fwd Refs](#)  
[End of Result Set](#)[Previous Doc](#) [Next Doc](#) [Go to Doc#](#) [Generate Collection](#) [Print](#)

L9: Entry 1 of 1

File: USPT

Apr 20, 2004

DOCUMENT-IDENTIFIER: US 6725288 B2

TITLE: System for transmitting data between a device data area and a variable data area of a memory according to a memory map based on an identifying data of a device detectedAbstract Text (1):

A controller contains an I/O memory and uses a device detecting service to detect a device connected to it through a network and to obtain its device identifying data. A memory map setting service sets a device data area on the I/O memory according to the obtained device identifying data for exchanging data with the connected device and produces a memory map correlating the device data area with a variable data area on the I/O memory correlated to the device. The controller also includes a cyclic service and a data transmission service. The cyclic service transmits and receives data to and from the device periodically in the data linking format according to the memory map and by using the device data area on the I/O memory. The data transmission service transmits the data between the variable data area and the device data area.

Detailed Description Text (19):

The devices respond to the command message by transmitting back as response messages their device data such as their device names, serial numbers, node numbers, I/O sizes, maker names, etc. These received device data are collected and compared with already stored device data. If there is a difference, it is determined that a new device has been connected, say, to the network, and difference data (on the newly connected device) are transmitted to a memory map setting service 18. Immediately after the controller 10 is switched on, however, the acquired data are transmitted to the memory map setting service 18 because there are no already existing data. The memory map setting service 18 is for obtaining device data from the device detecting service 17, making a memory map based on the received data and transmitting the produced memory map to a data transmission service 19 and a cyclic service 20.

## CLAIMS:

1. A controller for controlling devices that are connected thereto, said controller comprising: memory means inside said controller for storing data; device detecting means for detecting a device connected to said controller and obtaining device identifying data on the detected device; memory map setting means for setting a device data area on said memory means, based on the obtained device identifying data, for transmitting and receiving data to and from said device and producing a memory map which correlates said device data area with a variable data area on said memory correlated to said device; communicating means for periodically transmitting and receiving data to and from said device in a data linking format according to said memory map by using said device data area on said memory means; and data transmitting means for transmitting data according to said memory map between said variable data area on said memory means and said device data area.
2. The controller of claim 1 further comprising correlation data storing means for storing correlation data for correlating said control program and said device, said control program accessing said device by referencing said correlation data to thereby identify an access address.
3. An extension board to be connected to a controller controlling a device connected to said controller; said extension board comprising: device detecting means for detecting a device connected to said controller and obtaining device identifying data on the detected device; memory map setting means for setting a device data area on memory means inside said controller, based on the obtained device identifying data, for transmitting and receiving data to and from

said device and producing a memory map which correlates said device data area with a variable data area on said memory correlated to said device; and data transmitting means for transmitting data according to said memory map between said variable data area on said memory means and said device data area.

4. A communication unit for communicating with a device connected to and controlled by a controller containing a memory means; said communication unit comprising: device detecting means for detecting said device connected to said controller and obtaining device identifying data on the detected device; memory map setting means for setting a device data area on said memory means, based on the obtained device identifying data, transmitting and receiving data to and from said device and producing a memory map which correlates said device data area with a variable data area on said memory correlated to said device; communicating means for periodically transmitting and receiving data to and from said device in a data linking format according to said memory map by using said device data area on said memory means; and data transmitting means for transmitting data according to said memory map between said variable data area on said memory means and said device data area.

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)